

In the claims:

Please amend the claims as reflected in the following listing

CLAIMS:

1-50 (Cancelled)

51. (New) An abutment device for interfacing a dental prosthesis to a dental implant or to a dental implant duplicate thereof inserted into a patient's jaw or a model of the patient's jaw thereof, the abutment device made from at least three elements, the device comprising:

a prefabricated intra implant element selected from a plurality of prefabricated intra implant elements that fits the dental implant;

a prefabricated intra-crown element selected from a plurality of prefabricated intra-crown elements, to be fitted with the dental prosthesis;

an intermediary connection element for connecting between the intra-crown element and the intra implant element comprising a deformable element that is used to determine a proper relative position of the intra implant element and the intra crown element so as to facilitate forming a model or permanent abutment.

52. (New) The device of claim 51, wherein the deformable element of the connection comprises an initially soft material that is eventually hardened.

53. (New) The device of claim 52, wherein the deformable element of the connection comprises resilient bonding material.

54. (New) The device of claim 52, wherein the deformable element of the connection further comprises mechanical reinforcements.

55. (New) The device of claim 52, wherein the deformable element of the connection is in the form of a globule with a pliable membrane.

56. (New) The device of claim 52, wherein the deformable element of the connection further comprises at least one deformable reinforcement.

57. (New) The device of claim 51, wherein the intra-crown element and the intra-implant element are pre-joined by a resilient joint.

58. (New) The device of claim 57, wherein the resilient joint includes a deformable membrane that encloses the intra-crown element and the intra-implant element and is amenable to curing.

59. (New) The device of claim 57, wherein the resilient joint includes a mechanical connection that is amenable to bending, elongation and compression.

60. (New) The device of claim 57, wherein the resilient joint comprises resilient bonding material contained within a pliable membrane that permits the resilient bonding material to be matched to an internal contour of the intra-crown element and to an external contour of the intra-implant element.

61. (New) A kit for preparing a dental abutment, the kit comprising:
at least one of a plurality of prefabricated intra-implant elements designed to fit different dental implants;
at least one of a plurality of prefabricated intra-crown elements, designed to be fitted with different dental prostheses.

62. (New) The kit of claim 61, further including: at least one of a plurality of intra-crown element replicates adapted for precise fitting to a respective adapter.

63. (New) The kit of claim 62, further including at least one of said adapters.

64. (New) The kit of claim 63, wherein said at least one adapter has a female connector for accommodating therein a male connector fitted to an intra-crown element replicate.

65. (New) The kit of claim 63, wherein said at least one adapter has a male connector for fitting into a female connector within an intra-crown element replicate.

66. (New) The kit of claim 63, wherein the adapter is a universal adapter that is configured for use with various intra-crown elements.

67. (New) The kit of claim 61, further including at least one of a plurality of copings each having an internal hollow that is of complementary shape to an external contour of a respective intra-crown element.

68. (New) The kit of claim 67, wherein said at least one of a plurality of copings is made of any material in the group of: wax, acryl, gold, non-precious metal, porcelain, zirconia, alumina.

69. (New) The kit of claim 61, further including at least one of a plurality of temporary crowns.

70. (New) The kit of claim 61, further including at least one of a plurality of porcelain crowns.

71. (New) The kit of claim 61, further comprising at least one of a plurality of intermediary connection elements for connecting between the intra-crown element and the intra implant element comprising a deformable element that is used to determine a proper relative position of the intra implant element and the intra crown element so as to facilitate forming a model or permanent abutment.

72. (New) The kit of claim 71, wherein said at least one of a plurality of intermediary connection elements comprises a globule of resilient bonding material contained within a pliable membrane that permits the resilient bonding material to be matched to an internal contour of the intra-crown element and to an external contour of the intra-implant element.

73. (New) The kit of claim 71, wherein the deformable element of the connection comprises an initially soft material that is eventually hardened.

74. (New) The kit of claim 71, wherein the deformable element of the connection comprises resilient bonding material.

75. (New) The kit of claim 71, wherein the deformable element of the connection further comprises mechanical reinforcements.

76. (New) The kit of claim 71, wherein said at least one of a plurality of intermediary connection elements is made of wax.

77. (New) A method for forming an abutment for interfacing a dental prosthesis to a dental implant or to a dental implant duplicate thereof inserted into a patient's jaw or a model of the patient's jaw thereof, the abutment made from at least three parts, the method comprising:

selecting an intra-implant element from a plurality of prefabricated intra-implant elements that fits the dental implant;

selecting an intra-crown element from a plurality of intra-crown elements, that fits the dental prosthesis;

removably and reproducibly attaching to the dental implant or said duplicate the selected intra-implant element;

positioning the selected intra-crown element over the intra-implant element and determining a connection between the intra-crown element to the intra-implant element by a deformable element whose length and orientation may be set so as to form a model abutment that is properly adjusted to the dental implant or said duplicate and is properly positioned to receive the dental prosthesis;

removing the model abutment from the dental implant or said duplicate without deforming the model abutment, and using the model abutment to form a permanent abutment.

78. (New) The method of claim 77, further including strengthening said connection so that removal of the model abutment from the dental implant or said duplicate does not deform the model abutment.

79. (New) The method of claim 77, wherein using the model abutment to form a permanent abutment includes providing a bore through either the model abutment or the permanent abutment for accommodating a screw therethrough.

80. (New) A method for forming a pre-fabricated dental prosthesis that is suited for fitting via an abutment to a dental implant without requiring precise knowledge of a

location and orientation of the dental implant in a patient's mouth, the method comprising: obtaining a model of the patient's mouth, said model having embedded therein an adapter that is configured for removably fitting thereto an intra-crown element replicate that is adapted for precise fitting to the adapter so that when a dental prosthesis is fitted on to the intra-crown element replicate, the dental prosthesis will be properly and reproducibly located in the model of the patient's mouth; in respect of each dental prosthesis that is to be pre-fabricated, inserting a respective intra-crown element replicate into a respective adapter; and using the respective intra-crown element replicate as a template for forming a dental prosthesis that may subsequently be fitted on to an abutment.

81. (New) A method for forming a pre-fabricated dental prosthesis that is suited for fitting via an abutment to a dental implant without requiring precise knowledge of a location and orientation of the dental implant in a patient's mouth, the method comprising: obtaining a model of the patient's mouth, said model having embedded therein an adapter that is configured for removably fitting thereto an intra-crown element replicate that is adapted for precise fitting to the adapter; creating in situ in said model an imitation dental prosthesis of each dental prosthesis that is to be pre-fabricated or an imitation infrastructure thereof on which the dental prosthesis can be subsequently constructed; generating a 3-D computer construction of each imitation dental prosthesis or imitation infrastructure; using the 3-D computer construction to

generate the dental prosthesis or the respective infrastructure thereof from which the dental prosthesis may be formed and to generate a respective intra-crown element for preparing an abutment.

82. (New) The method according to claim 81, further including using the 3-D computer construction to generate a respective intra-crown element replicate and an adapter for mating thereto.